

Appendix I3



INTEROFFICE MEMORANDUM

Date: June 14, 2001
To: B. J. Broomfield MS 3950 6-3528
From: K. L. Sorman KLS MS 3655 6-0015
Subject: WAG 10 OU-10-04 FEASIBILITY STUDY (UXO SITES)

Estimating Services has prepared Planning Cost Estimates for the above subject project. The cost estimates have been completed based on the project descriptions supplied by the requester and information supplied by prospective vendors.

Total Estimated Cost (TEC) for the No Action Option is \$2,882,196
Total Estimated Cost (TEC) for the Limited Action Option is \$6,289,442
Total Estimated Cost (TEC) for the 3 Option is \$18,668,559

The above costs are shown as the base costs plus contingency costs. Escalated and Discounted costs are shown in the cover tables attached to each set of cost estimates and below.

Total Net Present Worth Cost (NPWC) for the No Action Option is \$2,354,325
Total Net Present Worth Cost (NPWC) for the Limited Action Option is \$5,155,990
Total Net Present Worth Cost (NPWC) for the 3 Option is \$16,480,475

Please refer to the attached Detail, Recapitulation, and Summary sheets for cost breakdowns, descriptions, and cost estimating basis.

Due to minimal detail and scoping definition, this estimate is considered a "Planning" estimate and should not be used to establish a cost baseline.

If you have any questions or comment, please contact Scott Wasley at 526-3620.

KLS

Attachments

cc: Estimate File 8952-2 KLS
K. L. Sorman File (KLS-10-01)

Uniform File Code: 8309
Disposition Authority: A17-31-a-1
Retention Schedule: Until dismantlement or disposal of facility, equipment, system, or process; or when superseded or obsolete, whichever is earlier.

B. J. Broomfield
June 14, 2001
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NOTE: Original disposition authority, retention schedule, and Uniform Filing Code applied by the sender may not be appropriate for all recipients. Make adjustments as needed.

COST ESTIMATE SUPPORT DATA RECAPITULATION

Project Title: WAG 10 OU-10-04 Feasibility Study (UXO Sites)
Estimator: K.L. Sorman, S.N. Wasley, S.L. Coward
Date: June 4, 2001
Estimate Type: Planning
File: 8952-2
Approved By: 

I. **SCOPE OF WORK:** *Brief description of the proposed project.*

The scope of work includes preparing Planning Cost Estimates for the WAG-10 UXO Sites Feasibility Study. Four options were prepared as follows:

- 1) No Action includes miscellaneous environmental documentation and 5-year reviews.
- 2) Limited Action includes installation of fencing, maintenance of existing fencing, signage, 5 year reviews and access restrictions for 100 years.
- 3) Remediation Actions
 - 3A) Option 3A includes one survey of the UXO Sites with a helicopter and removal of 1000 UXOs after the survey.

II. **BASIS OF THE ESTIMATE:** *Drawings, Design Report, Engineers Notes and/or other documentation upon which the estimate is originated.*

The basis for the estimate includes:

- A. Information provided by the requester defining scope of work.
- B. Remediation technology information obtained from Environmental Restoration cost handbooks/manuals.
- C. Vendor information regarding aerial surveying conducted at another site.

III. **ASSUMPTIONS:** *Conditions statements accepted or supposed true without proof of demonstration. An assumption has a direct impact on total estimated cost.*

General assumptions for all options:

- A. It was assumed that previously qualified and trained personnel would complete the work; no costs have been included in these estimates to train personnel.

COST ESTIMATE SUPPORT DATA RECAPITULATION

- Continued -

Project Title: WAG 10 OU-10-04 Feasibility Study (UXO Sites)

File: 8952-2

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- B. Per the direction of the requester, all pre-remediation documentation, planning, etc., were assumed to be completed during FY 2003. All remediation activities were assumed to be started during FY 2004.
- C. It was assumed that all identified unexploded ordinances would be hand excavated for the retrieval process.
- D. It was assumed that no temporary power or utilities would be required.
- E. Internal BBWI General and Administrative (G&A) and Procurement fees were included in the cost estimate.

Specific Assumptions:

A. No Action Alternative:

- 1. It was assumed that the No Action Alternative would require no monitoring.
- 2. Five-year reviews will be conducted to look for changing conditions.

B. Limited Action Alternative:

- 1. It was assumed the Limited Action Alternative would require no monitoring.
- 2. It was assumed that the Limited Action alternative would require 5-year reviews to look for changing conditions of the UXO Sites.
- 3. Maintenance of existing fencing and installation of new signs were included in this option.
- 4. It was assumed that deed restrictions for 100 years would be required for this option.

C. Alternative 3:

- 1. Only one aerial survey will be conducted in the 3 Alternative. This survey covered 252,000 acres.
- 2. One full-time equivalent person was included for 3 years to do analytical work.
- 3. It was assumed that one thousand UXOs would be found, detonated onsite, and disposed of at the CFA landfill after the survey is completed.

COST ESTIMATE SUPPORT DATA RECAPITULATION

- Continued -

Project Title: WAG 10 OU-10-04 Feasibility Study (UXO Sites)
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4. It was assumed that deed restrictions for 100 years would be required for this option.

IV. **CONTINGENCY GUIDELINE IMPLEMENTATION:** *The percentage used for contingency as determined by the contingency allowance guidelines can be altered to reflect the type of construction and conditions that may impact the total estimated cost.*

Based on the preliminary scoping, time constraints, and unforeseen risks, contingency was included in these cost estimates at 30%.

V. **OTHER COMMENTS/CONCERNS SPECIFIC TO THE ESTIMATE:**

Escalation was applied per DOE Order 430.1 for the first 6 years. 2.9% (which was the last escalation rate forecasted on the guidance) was used for the next 4 years. Then 5% per year was used for the remaining outyears. The costs were discounted at a straight 5% per DOE ER guidance.

Due to minimal detail and scoping definition, this estimate is considered a "Planning" estimate and is not intended to be used to establish a cost baseline.

TEC SUMMARY COMPARISON REPORT

Project WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES
 Location UXO AREA
 File # 8952-2

Date: 06/07/01

Description	No Action				Limited Action				RA - Opt. 3			
	Midpt.	Base Cost	Esc'd Cost	Disc. Cost	Midpt.	Base Cost	Esc'd Cost	Disc. Cost	Midpt.	Base Cost	Esc'd Cost	Disc. Cost
CAPITAL COSTS:		122,540	132,607	114,551		882,875	4,228,750	762,666		10,202,998	14,569,562	9,309,975
Remedial Design		20,470	22,152	19,135		438,937	3,727,476	360,833		896,415	4,222,537	788,485
RD/RA Statement of Work			0	0			0	0	2003	81,723	88,437	76,395
Remedial Design Work Plan	2003	5,336	5,774	4,988	2003	5,336	5,774	4,988	2003	10,673	11,550	9,977
Envir., Safety and Health Plan			0	0			0	0	2003	101,170	109,481	94,574
Sampling and Analysis Plan			0	0			0	0	2003	108,964	117,916	101,860
Quality Assurance Proj. Plan			0	0			0	0	2003	24,214	26,203	22,635
Site Ops and Maint. Plan			0	0	2003	12,107	13,102	11,318	2003	36,321	39,305	33,953
Draft Final Design/Report Prep.			0	0			0	0	2003	24,214	26,203	22,635
Remedial Action Work Plan			0	0			0	0	2003	63,562	68,784	59,418
Plans and Specifications			0	0	2003	10,000	10,822	9,348	2003	25,000	27,054	23,370
Deed Restriction Reviews			0	0	2050	396,360	3,681,401	321,032	2050	396,360	3,681,401	321,032
Misc. Envir. Documents	2003	15,134	16,377	14,147	2003	15,134	16,377	14,147	2003	24,214	26,203	22,635
Remediation Support		66,589	72,059	62,248		66,589	72,059	62,248		156,688	169,560	146,472
Quality Assurance			0	0			0	0	2003	23,510	25,441	21,977
Project Office Operations	2003	66,589	72,059	62,248	2003	66,589	72,059	62,248	2003	133,178	144,119	124,495
Remediation/Tech. Support Act.		35,481	38,396	33,168		37,794	40,899	35,330		44,735	48,410	41,818
Engineering & Tech. Support	2003	35,481	38,396	33,168	2003	37,794	40,899	35,330	2003	44,735	48,410	41,818
Remedial Action		0	0	0		339,555	388,315	304,255		9,056,731	10,075,180	8,288,876
Mobilization & Prep. Work			0	0			0	0	2004	12,903	14,354	11,809
Sitework			0	0	2005	339,555	388,315	304,255	2004	9,012,712	10,026,211	8,248,589
Site Restoration			0	0			0	0			0	0
Demobilization			0	0			0	0	2004	12,903	14,354	11,809
Other			0	0			0	0	2004	18,213	20,261	16,669
Removal Actions		0	0	0		0	0	0		48,429	53,875	44,323
Summary Report			0	0			0	0	2004	48,429	53,875	44,323
OPERATIONS COSTS:		2,094,534	19,454,081	1,696,468		3,946,474	36,654,944	3,196,448		3,946,474	36,654,944	3,196,448
Cleanup Tech. Admin. Activities		1,816,070	16,867,701	1,470,926		1,816,070	16,867,701	1,470,926		1,816,070	16,867,701	1,470,926
Proj. & Baseline Mgmt./Report	2050	1,816,070	16,867,701	1,470,926	2050	1,816,070	16,867,701	1,470,926	2050	1,816,070	16,867,701	1,470,926
Post ROD Ops and Maintenance		0	0	0		1,851,940	17,200,863	1,499,979		1,851,940	17,200,863	1,499,979
Caretaker Maintenance			0	0	2050	1,851,940	17,200,863	1,499,979	2050	1,851,940	17,200,863	1,499,979
Monitoring		278,464	2,586,380	225,542		278,464	2,586,380	225,542		278,464	2,586,380	225,542
Field Sampling Plan			0	0			0	0			0	0
Sampling			0	0			0	0			0	0
5-Year Reviews	2050	278,464	2,586,380	225,542	2050	278,464	2,586,380	225,542	2050	278,464	2,586,380	225,542
G&A and PIF		0	0	0		8,683	80,648	7,033		210,958	1,959,383	170,865
Non-Org G&A and PIF			0	0	2050	8,683	80,648	7,033	2050	210,958	1,959,383	170,865
SUBTOTAL COSTS		2,217,074	19,586,688	1,811,019		4,838,032	40,964,341	3,966,146		14,360,430	53,183,889	12,677,288
Plus. 30% Contingency		665,122	5,876,006	543,306		1,451,410	12,289,302	1,189,844		4,308,129	15,955,167	3,803,186
TOTAL COSTS		2,882,196	25,462,695	2,354,325		6,289,442	53,253,644	5,155,990		18,668,559	69,139,056	16,480,475

Project Name: **WAG 10 OU10-4 FEASIBILITY STUDY- UXO SITES (No Action)**
 Project Location: **UXO Area**
 Estimate Number: **8952 -2(no Action)**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **PLANNING**

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<u>LEVEL</u>		<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
ER1210	REMEDIAL DESIGN	\$20,470	\$0	\$0	0.00%	\$20,470
ER1210.05	--Remedial Design (RD) Work Plan	\$5,336	\$0	\$0	0.00%	\$5,336
ER 1210.05.02	---Cost Estimate	\$5,336	\$0	\$0	0.00%	\$5,336
ER 1210.20	--Miscellaneous Environmental Documents	\$15,134	\$0	\$0	0.00%	\$15,134
ER 1220	REMEDICATION SUPPORT	\$66,589	\$0	\$0	0.00%	\$66,589
ER 1220.05	--Project Office Operations	\$66,589	\$0	\$0	0.00%	\$66,589
ER 1221	REMEDICATION/TECHNICAL SUPPORT ACTIVITIES	\$35,481	\$0	\$0	0.00%	\$35,481
ER1221.04	--Engineering and Technical Support	\$35,481	\$0	\$0	0.00%	\$35,481
ER1221.04.01	---Annual Program Management	\$35,481	\$0	\$0	0.00%	\$35,481
ER 1240	CLEANUP TECHNICAL ADMINISTRATIVE ACTIVITIES	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1240.01	--Project and Baseline Management and Reporting	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER1240.01.01	---Project Management 100 year Duration	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1310	MONITORING	\$278,464	\$0	\$0	0.00%	\$278,464
ER 1310.05	--5-Year Reviews	\$278,464	\$0	\$0	0.00%	\$278,464
Total WAG-10 OU10-4 UXO SITES (NO ACTION)		\$2,217,075	\$0	\$0	0.00%	\$2,217,075

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Success Estimating and Cost Management System

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Project Name:
WAG 10 OU10-4 FEASIBILITY STUDY- UXO SITES (No Action)
 Project Location: **UXO Area**
 Estimate Number: **8952 -2(no Action)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **PLANNING**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Egg</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.05.02 Cost Estimate										
	U.C. per FTE		80	F22	5336.432	0	0	0	0	5336.432
Cost Estimating Support	1.00		80	\$66.71	\$5,336	\$0	\$0	\$0	\$0	\$5,336
Subtotal					\$5,336	\$0	\$0	\$0	\$0	\$5,336
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$5,336
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.05.02 Cost Estimate			80		\$5,336	\$0	\$0	\$0	\$0	\$5,336
--- ER 1210.20 Miscellaneous Environmental Documents										
	U.C. per		100	E08	7566.96	0	0	0	0	7566.96
Pre-Final Inspection Report	2.00		200	\$75.67	\$15,134	\$0	\$0	\$0	\$0	\$15,134
Subtotal					\$15,134	\$0	\$0	\$0	\$0	\$15,134
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$15,134
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.20 Miscellaneous Environmental Documents			200		\$15,134	\$0	\$0	\$0	\$0	\$15,134
--- ER 1220.05 Project Office Operations										
	U.C. per FTE		320	E08	24214.271	0	0	0	0	24214.271
Coord./Oversigh of the technical Support	1.00		320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
Coord. with Agency Participants	1.00		160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
Cost and Schedule Control	1.00		160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
	U.C. per FTE		80	E08	6053.568	0	0	0	0	6053.568
Ensure Compliance of Gov't Regulations	1.00		80	\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054
	U.C. per FTE		80	E08	6053.568	0	0	0	0	6053.568
Quarterly and Yearly Reviews	1.00		80	\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054

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Project Name:
WAG 10 OU10-4 FEASIBILITY STUDY- UXO SITES (No Action)
 Project Location: **UXO Area**
 Estimate Number: **8952 -2(no Action)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **PLANNING**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const</u>	<u>Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
-- ER 1220.05 Project Office Operations											
		U.C. per FTE									
Audit Preparation and Coordination		1.00	80	E08	6053.568	0	0	0	0	0	6053.568
			80		\$6,054	\$0	\$0	\$0	\$0	\$0	\$6,054
Subtotal					\$66,589	\$0	\$0	\$0	\$0	\$0	\$66,589
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate											\$66,589
Escalation					\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0	\$0
--Total ER 1220.05 Project Office Operations			880		\$66,589	\$0	\$0	\$0	\$0	\$0	\$66,589
-- ER1221.04.01 Annual Program Management											
<i>Memo: All Quality Engineering actions and inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>											
		U.C. per FTE									
Coordination/Oversight of Technical Support		1.00	200	E08	15133.919	0	0	0	0	0	15133.919
			200		\$15,134	\$0	\$0	\$0	\$0	\$0	\$15,134
Coordination with Agency Participants		1.00	80	E08	6053.568	0	0	0	0	0	6053.568
			80		\$6,054	\$0	\$0	\$0	\$0	\$0	\$6,054
Cost and Schedule Control		1.00	60	F22	4002.324	0	0	0	0	0	4002.324
			60		\$4,002	\$0	\$0	\$0	\$0	\$0	\$4,002
Ensure Compliance of Gov't Regulation		1.00	32	E08	2421.427	0	0	0	0	0	2421.427
			32		\$2,421	\$0	\$0	\$0	\$0	\$0	\$2,421
Reviews		1.00	32	E08	2421.427	0	0	0	0	0	2421.427
			32		\$2,421	\$0	\$0	\$0	\$0	\$0	\$2,421
Audit Preparation and Coordination		1.00	32	E08	2421.427	0	0	0	0	0	2421.427
			32		\$2,421	\$0	\$0	\$0	\$0	\$0	\$2,421
Annual Operations and Maintenance Reports		1.00	40	E08	3026.784	0	0	0	0	0	3026.784
			40		\$3,027	\$0	\$0	\$0	\$0	\$0	\$3,027
Subtotal					\$35,481	\$0	\$0	\$0	\$0	\$0	\$35,481
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate											\$35,481
Escalation					\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0	\$0
---Total ER1221.04.01 Annual Program Management			476		\$35,481	\$0	\$0	\$0	\$0	\$0	\$35,481

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Project Name: **WAG 10 OU10-4 FEASIBILITY STUDY- UXO SITES (No Action)**
 Project Location: **UXO Area**
 Estimate Number: **8952 -2(no Action)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **PLANNING**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER1240.01.01 Project Management 100 year Duration										
<i>Memo: All Quality Engineering actions and Inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>										
		U.C. per YRS	240	E08	18160.703	0	0	0	0	18160.703
Project Management for 100 year Duration		100.00	24,000	\$75.67	\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Subtotal					\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$1,816,070
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER1240.01.01 Project Management 100 year Duration			24,000		\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
--- ER 1310.05 5-Year Reviews										
		U.C. per FTEs	160	E08	12107.136	0	0	0	0	12107.136
1 FTE for first 5 years		5.00	800	\$75.67	\$60,536	\$0	\$0	\$0	\$0	\$60,536
		U.C. per FTEs	160	E08	12107.136	0	0	0	0	12107.136
1 FTE in 5 year increments from year 6 through 100		18.00	2,880	\$75.67	\$217,928	\$0	\$0	\$0	\$0	\$217,928
Subtotal					\$278,464	\$0	\$0	\$0	\$0	\$278,464
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$278,464
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1310.05 5-Year Reviews			3,680		\$278,464	\$0	\$0	\$0	\$0	\$278,464
Subtotal WAG-10 OU10-4 UXO SITES (NO ACTION)					\$2,217,075	\$0	\$0	\$0	\$0	\$2,217,075
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$2,217,075
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
Total WAG-10 OU10-4 UXO SITES (NO ACTION)			29,316		\$2,217,075	\$0	\$0	\$0	\$0	\$2,217,075

I3-10

Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>		<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
ER1210	REMEDIAL DESIGN	\$438,938	\$0	\$0	0.00%	\$438,938
ER1210.05	--Remedial Design (RD) Work Plan	\$5,336	\$0	\$0	0.00%	\$5,336
ER 1210.05.02	---Cost Estimate	\$5,336	\$0	\$0	0.00%	\$5,336
ER 1210.13	--Site Operations and Maintenance (O&M) Plan	\$12,107	\$0	\$0	0.00%	\$12,107
ER 1210.16	--Plans and Specifications	\$10,000	\$0	\$0	0.00%	\$10,000
ER 1210.19	--Deed Restriction Reviews	\$396,360	\$0	\$0	0.00%	\$396,360
ER 1210.20	--Miscellaneous Environmental Documents	\$15,134	\$0	\$0	0.00%	\$15,134
ER 1220	REMEDATION SUPPORT	\$66,589	\$0	\$0	0.00%	\$66,589
ER 1220.05	--Project Office Operations	\$66,589	\$0	\$0	0.00%	\$66,589
ER 1221	REMEDATION/TECHNICAL SUPPORT ACTIVITIES	\$37,794	\$0	\$0	0.00%	\$37,794
ER1221.04	--Engineering and Technical Support	\$37,794	\$0	\$0	0.00%	\$37,794
ER1221.04.01	---Annual Program Management	\$37,794	\$0	\$0	0.00%	\$37,794
ER 1230	REMEDIAL ACTION	\$339,555	\$0	\$0	0.00%	\$339,555
ER1230.03	--Sitework	\$339,555	\$0	\$0	0.00%	\$339,555
ER 1240	CLEANUP TECHNICAL ADMINISTRATIVE ACTIVITIES	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1240.01	--Project and Baseline Management and Reporting	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER1221.21	---Project Management 100 year Duration	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1300	POST ROD OPERATIONS & MAINTENANCE	\$1,851,940	\$0	\$0	0.00%	\$1,851,940
ER 1300.01	--Caretaker Maintenance	\$1,851,940	\$0	\$0	0.00%	\$1,851,940
ER 1310	MONITORING	\$278,464	\$0	\$0	0.00%	\$278,464

INEEL

Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
ER 1310.05 --5-Year Reviews	\$278,464	\$0	\$0	0.00%	\$278,464
GAPIF Non-Org G&A and PIF	\$8,683	\$0	\$0	0.00%	\$8,683
<hr/>					
Total WAG 10 OU10-04 Feasibility Study, UXO SITES (Limited Action)	\$4,838,034	\$0	\$0	0.00%	\$4,838,034

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INEEL

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Success Estimating and Cost Management System

Page No. 2

Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Egg</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.05.02 Cost Estimate										
Cost Estimating Support		U.C. per FTE	80	F22	5336.432	0	0	0	0	5336.432
		1.00	80	\$66.71	\$5,336	\$0	\$0	\$0	\$0	\$5,336
Subtotal					\$5,336	\$0	\$0	\$0	\$0	\$5,336
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$5,336
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.05.02 Cost Estimate			80		\$5,336	\$0	\$0	\$0	\$0	\$5,336
--- ER 1210.13 Site Operations and Maintenance (O&M) Plan										
		U.C. per FTE	160	E08	12107.136	0	0	0	0	12107.136
		1.00	160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
Subtotal					\$12,107	\$0	\$0	\$0	\$0	\$12,107
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$12,107
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.13 Site Operations and Maintenance (O&M) Plan			160		\$12,107	\$0	\$0	\$0	\$0	\$12,107
--- ER 1210.16 Plans and Specifications										
Design of Fence, etc.		U.C. per LS	0		0	0	10000	0	0	10000
		1.00	0		\$0	\$0	\$10,000	\$0	\$0	\$10,000
Subtotal					\$0	\$0	\$10,000	\$0	\$0	\$10,000
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$10,000
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.16 Plans and Specifications			0		\$0	\$0	\$10,000	\$0	\$0	\$10,000
--- ER 1210.19 Deed Restriction Reviews										
5-yr. review of Deed Restrict. over 100 yrs. (Legal Attorney & Env. Affairs)		U.C. per EA	240	P13	19818.014	0	0	0	0	19818.014
		20.00	4,800	\$82.58	\$396,360	\$0	\$0	\$0	\$0	\$396,360

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Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
-- ER 1210.19 Deed Restriction Reviews										
	Subtotal				\$396,360	\$0	\$0	\$0	\$0	\$396,360
	Sales Tax				\$0	\$0	\$0	\$0	\$0	\$0
	INEEL ORG Labor/Subcontractor Overheads				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate									\$396,360
	Escalation				\$0	\$0	\$0	\$0	\$0	\$0
	Contingency				\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.19 Deed Restriction Reviews			4,800		\$396,360	\$0	\$0	\$0	\$0	\$396,360
-- ER 1210.20 Miscellaneous Environmental Documents										
	U.C. per		100	E08	7566.96	0	0	0	0	7566.96
	Pre-Final Inspection Report	2.00	200	\$75.67	\$15,134	\$0	\$0	\$0	\$0	\$15,134
	Subtotal				\$15,134	\$0	\$0	\$0	\$0	\$15,134
	Sales Tax				\$0	\$0	\$0	\$0	\$0	\$0
	INEEL ORG Labor/Subcontractor Overheads				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate									\$15,134
	Escalation				\$0	\$0	\$0	\$0	\$0	\$0
	Contingency				\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.20 Miscellaneous Environmental Documents			200		\$15,134	\$0	\$0	\$0	\$0	\$15,134
-- ER 1220.05 Project Office Operations										
	U.C. per FTE		320	E08	24214.271	0	0	0	0	24214.271
	Coord./Oversight of the technical Support	1.00	320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
	Coord. with Agency Participants	1.00	160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
	Cost and Schedule Control	1.00	160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
	U.C. per FTE		80	E08	6053.568	0	0	0	0	6053.568
	Ensure Compliance of Gov't Regulations	1.00	80	\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054
	U.C. per FTE		80	E08	6053.568	0	0	0	0	6053.568
	Quarterly and Yearly Reviews	1.00	80	\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054

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Project Name: **WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)**
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER1220.05 Project Office Operations										
Audit Preparation and Coordination		U.C. per FTE	1.00	80 80	E08 \$75.67	6053.568 \$6,054	0 \$0	0 \$0	0 \$0	6053.568 \$6,054
Subtotal						\$66,589	\$0	\$0	\$0	\$66,589
Sales Tax						\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$66,589
Escalation						\$0	\$0	\$0	\$0	\$0
Contingency						\$0	\$0	\$0	\$0	\$0
---Total ER 1220.05 Project Office Operations			880			\$66,589	\$0	\$0	\$0	\$66,589
--- ER1221.04.01 Annual Program Management										
<i>Memo: All Quality Engineering actions and Inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>										
Coordination/Oversight of Technical Support		U.C. per FTE	1.00	200 200	E08 \$75.67	15133.919 \$15,134	0 \$0	0 \$0	0 \$0	15133.919 \$15,134
Coordination with Agency Participants		U.C. per FTE	1.00	80 80	E08 \$75.67	6053.568 \$6,054	0 \$0	0 \$0	0 \$0	6053.568 \$6,054
Cost and Schedule Control		U.C. per FTE	1.00	60 60	F22 \$66.71	4002.324 \$4,002	0 \$0	0 \$0	0 \$0	4002.324 \$4,002
Ensure Compliance of Gov't Regulation		U.C. per FTE	1.00	32 32	E08 \$75.67	2421.427 \$2,421	0 \$0	0 \$0	0 \$0	2421.427 \$2,421
Reviews		U.C. per FTE	1.00	32 32	E08 \$75.67	2421.427 \$2,421	0 \$0	0 \$0	0 \$0	2421.427 \$2,421
Audit Preparation and Coordination		U.C. per FTE	1.00	32 32	E08 \$75.67	2421.427 \$2,421	0 \$0	0 \$0	0 \$0	2421.427 \$2,421
Annual Operations and Maintenance Reports		U.C. per FTE	1.00	40 40	E08 \$75.67	3026.784 \$3,027	0 \$0	0 \$0	0 \$0	3026.784 \$3,027
Subcontract Administrator		U.C. per FTE	1.00	40 40	P21 \$57.84	2313.46 \$2,313	0 \$0	0 \$0	0 \$0	2313.46 \$2,313
Subtotal						\$37,794	\$0	\$0	\$0	\$37,794
Sales Tax						\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads						\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$37,794
Escalation						\$0	\$0	\$0	\$0	\$0
Contingency						\$0	\$0	\$0	\$0	\$0
---Total ER1221.04.01 Annual Program Management			516			\$37,794	\$0	\$0	\$0	\$37,794

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Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
-- ER1230.03 Sitework										
<i>Memo: Apply only when the project is large enough to support dedicated personnel instead of the pool account.</i>										
	GEN	U.C. per signs	0.25	CN-LABR	7.895	0	25	0	0	32.895
Post Signs on Existing Fence		8,000.00	2,000	\$31.58	\$63,160	\$0	\$200,000	\$0	\$0	\$263,160
Subtotal					\$63,160	\$0	\$200,000	\$0	\$0	\$263,160
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$18,335	\$0	\$58,060	\$0	\$0	\$76,395
Subtotal Estimate										\$339,555
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--Total ER1230.03 Sitework			2,000		\$81,495	\$0	\$258,060	\$0	\$0	\$339,555
--- ER1221.21 Project Management 100 year Duration										
<i>Memo: All Quality Engineering actions and Inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>										
		U.C. per YRS	240	E08	18160.703	0	0	0	0	18160.703
Project Management for 100 year Duration		100.00	24,000	\$75.67	\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Subtotal					\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$1,816,070
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--Total ER1221.21 Project Management 100 year Duration			24,000		\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
--- ER 1300.01 Caretaker Maintenance										
		U.C. per Yrs	480	U21	18519.396	0	0	0	0	18519.396
Caretaker Maintenance on Fence (40 hrs/mo x 100 years)		100.00	48,000	\$38.58	\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
Subtotal					\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$1,851,940
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--Total ER 1300.01 Caretaker Maintenance			48,000		\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
--- ER 1310.05 5-Year Reviews										
		U.C. per FTEs	160	E08	12107.136	0	0	0	0	12107.136
1 FTE for first 5 years		5.00	800	\$75.67	\$60,536	\$0	\$0	\$0	\$0	\$60,536

13-16

Project Name:
WAG 10 OU10-04 FEASIBILITY STUDY - UXO SITES (Limited Action)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(limited)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1310.05 5-Year Reviews										
		U.C. per FTEs								
1 FTE in 5 year increments from year 6 through 100		18.00	160	E08 \$75.67	12107,136 \$217,928	0 \$0	0 \$0	0 \$0	0 \$0	12107,136 \$217,928
Subtotal					\$278,464	\$0	\$0	\$0	\$0	\$278,464
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$278,464
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1310.05 5-Year Reviews			3,680		\$278,464	\$0	\$0	\$0	\$0	\$278,464
--- GAPIF Non-Org G&A and PIF										
<i>Memo: This is a model that works with the macro named "INEELRollup_Rev0.BAS".</i>										
PF	NOGAPIF	U.C. per \$			0	0	0	0	1	1
Procurement Fee %		6,292.00	0		\$0	\$0	\$0	\$0	\$6,292	\$6,292
G&A	NOGAPIF	U.C. per \$			0	0	0	0	1	1
G&A Fee %		2,391.00	0		\$0	\$0	\$0	\$0	\$2,391	\$2,391
Subtotal					\$0	\$0	\$0	\$0	\$8,683	\$8,683
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$8,683
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total GAPIF Non-Org G&A and PIF			0		\$0	\$0	\$0	\$0	\$8,683	\$8,683
<hr/>										
Subtotal WAG 10 OU10-04 Feasibility Study, UXO SITES (Limited Action)					\$4,542,955	\$0	\$210,000	\$0	\$8,683	\$4,761,638
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$18,335	\$0	\$58,060	\$0	\$0	\$76,395
Subtotal Estimate										\$4,838,034
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
Total WAG 10 OU10-04 Feasibility Study, UXO SITES (Limited Action)			84,316		\$4,561,291	\$0	\$268,060	\$0	\$8,683	\$4,838,034

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Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number:**8952 -2(3)**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>		<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
ER1210	REMEDIAL DESIGN	\$896,417	\$0	\$0	0.00%	\$896,417
ER 1210.02	--Remedial Design/Remedial Action (RD/RA) Statement of Work	\$81,723	\$0	\$0	0.00%	\$81,723
ER 1210.02.01	----Pre-Design Studies/Preliminary Scoping	\$36,321	\$0	\$0	0.00%	\$36,321
ER 1210.02.02	----Design Criteria	\$12,107	\$0	\$0	0.00%	\$12,107
ER 1210.02.03	----RD/RA SOW Preparation	\$33,295	\$0	\$0	0.00%	\$33,295
ER1210.05	--Remedial Design (RD) Work Plan	\$10,673	\$0	\$0	0.00%	\$10,673
ER 1210.05.01	----Cost Estimate	\$10,673	\$0	\$0	0.00%	\$10,673
ER 1210.10	--Environmental, Safety and Health Plan	\$101,170	\$0	\$0	0.00%	\$101,170
ER 1210.11	--Sampling and Analysis Plan	\$108,964	\$0	\$0	0.00%	\$108,964
ER 1210.12	--Quality Assurance Project Plan (QAPjP)	\$24,214	\$0	\$0	0.00%	\$24,214
ER 1210.13	--Site Operations and Maintenance (O&M) Plan	\$36,321	\$0	\$0	0.00%	\$36,321
ER 1210.14	--Draft Final Design /Report Preparation	\$24,214	\$0	\$0	0.00%	\$24,214
ER 1210.15	--Remedial Action (RA) Work Plan	\$63,562	\$0	\$0	0.00%	\$63,562
ER 1210.16	--Plans and Specifications	\$25,000	\$0	\$0	0.00%	\$25,000
ER 1210.19	--Deed Restriction Reviews	\$396,360	\$0	\$0	0.00%	\$396,360
ER 1210.20	--Miscellaneous Environmental Documents	\$24,214	\$0	\$0	0.00%	\$24,214
ER 1220	REMEDIATION SUPPORT	\$156,689	\$0	\$0	0.00%	\$156,689
ER 1220.04	--Quality Assurance	\$23,510	\$0	\$0	0.00%	\$23,510
ER 1220.05	--Project Office Operations	\$133,178	\$0	\$0	0.00%	\$133,178
ER 1221	REMEDIATION/TECHNICAL SUPPORT ACTIVITIES	\$44,735	\$0	\$0	0.00%	\$44,735

INEEL

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Success Estimating and Cost Management System

Page No. 1

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>		<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
ER1221.04	--Engineering and Technical Support	\$44,735	\$0	\$0	0.00%	\$44,735
ER1221.04.01	---Annual Program Management	\$44,735	\$0	\$0	0.00%	\$44,735
ER 1230	REMEDIAL ACTION	\$9,056,731	\$0	\$0	0.00%	\$9,056,731
ER 1230.01	--Mobilization and Preparatory Work	\$12,903	\$0	\$0	0.00%	\$12,903
ER1230.03	--Sitework	\$9,012,712	\$0	\$0	0.00%	\$9,012,712
ER1230.05	--Demobilization	\$12,903	\$0	\$0	0.00%	\$12,903
ER1230.07	--Other	\$18,213	\$0	\$0	0.00%	\$18,213
ER1230.07.01	---Remedial Action Documentation	\$18,213	\$0	\$0	0.00%	\$18,213
ER 1240	CLEANUP TECHNICAL ADMINISTRATIVE ACTIVITIES	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1240.01	--Project and Baseline Management and Reporting	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER1221.21	---Project Management 100 year Duration	\$1,816,070	\$0	\$0	0.00%	\$1,816,070
ER 1270	REMOVAL ACTIONS	\$48,429	\$0	\$0	0.00%	\$48,429
ER 1270.07	--Summary Report	\$48,429	\$0	\$0	0.00%	\$48,429
ER 1300	POST ROD OPERATIONS & MAINTENANCE	\$1,851,940	\$0	\$0	0.00%	\$1,851,940
ER 1300.01	--Caretaker Maintenance	\$1,851,940	\$0	\$0	0.00%	\$1,851,940
ER 1310	MONITORING	\$278,464	\$0	\$0	0.00%	\$278,464
ER 1310.05	--5-Year Reviews	\$278,464	\$0	\$0	0.00%	\$278,464
GAPIF	Non-Org G&A and PIF	\$210,958	\$0	\$0	0.00%	\$210,958

INEEL

06/07/2001 13:55:58

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2/3]**

Project Summary Report

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Estimate Subtotal</u>	<u>Escalation</u>	<u>Contingency</u>	<u>Contingency %</u>	<u>TOTAL</u>
Total WAG 10 OU10-4 UX0 SITES OPT. 3	\$14,360,433	\$0	\$0	0.00%	\$14,360,433

INEEL

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Success Estimating and Cost Management System

Page No. 3

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.02.01 Pre-Design Studies/Preliminary Scoping										
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
Pre-Design Studies/Preliminary Scoping	3.00	480		\$75.67	\$36,321	\$0	\$0	\$0	\$0	\$36,321
<hr/>										
Subtotal					\$36,321	\$0	\$0	\$0	\$0	\$36,321
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
Subtotal Estimate										\$36,321
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
--- Total ER 1210.02.01 Pre-Design Studies/Preliminary Scoping			480		\$36,321	\$0	\$0	\$0	\$0	\$36,321
<hr/>										
--- ER 1210.02.02 Design Criteria										
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
Design Criteria	1.00	160		\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
<hr/>										
Subtotal					\$12,107	\$0	\$0	\$0	\$0	\$12,107
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
Subtotal Estimate										\$12,107
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
--- Total ER 1210.02.02 Design Criteria			160		\$12,107	\$0	\$0	\$0	\$0	\$12,107
<hr/>										
--- ER 1210.02.03 RD/RA SOW Preparation										
	U.C. per		80	E08	6053.568	0	0	0	0	6053.568
RD/RA Document Preparation	1.00	80		\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054
	U.C. per		360	E08	27241.055	0	0	0	0	27241.055
Reviews and Comment Resolution	1.00	360		\$75.67	\$27,241	\$0	\$0	\$0	\$0	\$27,241
<hr/>										
Subtotal					\$33,295	\$0	\$0	\$0	\$0	\$33,295
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
Subtotal Estimate										\$33,295
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
<hr/>										
--- Total ER 1210.02.03 RD/RA SOW Preparation			440		\$33,295	\$0	\$0	\$0	\$0	\$33,295
<hr/>										
--- ER 1210.05.01 Cost Estimate										
	U.C. per FTE		80	F22	5336.433	0	0	0	0	5336.433
Cost Estimating Support	2.00	160		\$66.71	\$10,673	\$0	\$0	\$0	\$0	\$10,673

13-21

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.05.01 Cost Estimate										
	Subtotal				\$10,673	\$0	\$0	\$0	\$0	\$10,673
	Sales Tax				\$0	\$0	\$0	\$0	\$0	\$0
	INEEL ORG Labor/Subcontractor Overheads				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate									\$10,673
	Escalation				\$0	\$0	\$0	\$0	\$0	\$0
	Contingency				\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.05.01 Cost Estimate			160		\$10,673	\$0	\$0	\$0	\$0	\$10,673
--- ER 1210.10 Environmental, Safety and Health Plan										
	U.C. per FTE									
		7.00	191	E08	14452.893	0	0	0	0	14452.893
			1,337	\$75.67	\$101,170	\$0	\$0	\$0	\$0	\$101,170
	Subtotal				\$101,170	\$0	\$0	\$0	\$0	\$101,170
	Sales Tax				\$0	\$0	\$0	\$0	\$0	\$0
	INEEL ORG Labor/Subcontractor Overheads				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate									\$101,170
	Escalation				\$0	\$0	\$0	\$0	\$0	\$0
	Contingency				\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.10 Environmental, Safety and Health Plan			1,337		\$101,170	\$0	\$0	\$0	\$0	\$101,170
--- ER 1210.11 Sampling and Analysis Plan										
	U.C. per FTE									
		3.00	480	E08	36321.407	0	0	0	0	36321.407
	Sampling & Analysis Plan (Scoping, field samp plan, & reviews & comments)		1,440	\$75.67	\$108,964	\$0	\$0	\$0	\$0	\$108,964
	Subtotal				\$108,964	\$0	\$0	\$0	\$0	\$108,964
	Sales Tax				\$0	\$0	\$0	\$0	\$0	\$0
	INEEL ORG Labor/Subcontractor Overheads				\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Estimate									\$108,964
	Escalation				\$0	\$0	\$0	\$0	\$0	\$0
	Contingency				\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.11 Sampling and Analysis Plan			1,440		\$108,964	\$0	\$0	\$0	\$0	\$108,964
--- ER 1210.12 Quality Assurance Project Plan (QAPIP)										
	U.C. per FTE									
		2.00	160	E08	12107.136	0	0	0	0	12107.136
			320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214

13-22

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.12 Quality Assurance Project Plan (QAP)P										
Subtotal					\$24,214	\$0	\$0	\$0	\$0	\$24,214
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$24,214
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total	ER 1210.12 Quality Assurance Project Plan (QAP)P		320		\$24,214	\$0	\$0	\$0	\$0	\$24,214
--- ER 1210.13 Site Operations and Maintenance (O&M) Plan										
	U.C. per FTE		160	E08	12107.136	0	0	0	0	12107.136
		3.00	480	\$75.67	\$36,321	\$0	\$0	\$0	\$0	\$36,321
Subtotal					\$36,321	\$0	\$0	\$0	\$0	\$36,321
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$36,321
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total	ER 1210.13 Site Operations and Maintenance (O&M) Plan		480		\$36,321	\$0	\$0	\$0	\$0	\$36,321
--- ER 1210.14 Draft Final Design /Report Preparation										
	U.C. per EA		320	E08	24214.271	0	0	0	0	24214.271
		1.00	320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
Subtotal					\$24,214	\$0	\$0	\$0	\$0	\$24,214
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$24,214
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total	ER 1210.14 Draft Final Design /Report Preparation		320		\$24,214	\$0	\$0	\$0	\$0	\$24,214
--- ER 1210.15 Remedial Action (RA) Work Plan										
	U.C. per FTE		280	E08	21187.487	0	0	0	0	21187.487
		3.00	840	\$75.67	\$63,562	\$0	\$0	\$0	\$0	\$63,562

13-23

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: *UXO Sites*
 Estimate Number: *8952 -2(3)*

CONSTRUCTION DETAIL ITEM REPORT

Client: *Barbara Broomfield*
 Prepared By: *KLS, SNW, SLC*
 Estimate Type: *Planning*

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1210.15 Remedial Action (RA) Work Plan										
Subtotal					\$63,562	\$0	\$0	\$0	\$0	\$63,562
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$63,562
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.15 Remedial Action (RA) Work Plan			840		\$63,562	\$0	\$0	\$0	\$0	\$63,562
--- ER 1210.16 Plans and Specifications										
Title I & II Design, Specs. & Documents	U.C. per dwg	5.00	0		\$0	\$0	5000	0	0	5000
					\$25,000	\$0	\$25,000	\$0	\$0	\$25,000
Subtotal					\$0	\$0	\$25,000	\$0	\$0	\$25,000
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$25,000
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.16 Plans and Specifications			0		\$0	\$0	\$25,000	\$0	\$0	\$25,000
--- ER 1210.19 Deed Restriction Reviews										
5-yr. review of Deed Restrict. over 100 yrs. (Legal Attorney & Env. Affairs)	U.C. per EA	20.00	240	P13 \$82.58	19818.014	0	0	0	0	19818.014
			4,800		\$396,360	\$0	\$0	\$0	\$0	\$396,360
Subtotal					\$396,360	\$0	\$0	\$0	\$0	\$396,360
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$396,360
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1210.19 Deed Restriction Reviews			4,800		\$396,360	\$0	\$0	\$0	\$0	\$396,360
--- ER 1210.20 Miscellaneous Environmental Documents										
Pre-Final Inspection Report	U.C. per	2.00	160	E08 \$75.67	12107.136	0	0	0	0	12107.136
			320		\$24,214	\$0	\$0	\$0	\$0	\$24,214

13-24

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Egg</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
-- ER 1210.20 Miscellaneous Environmental Documents										
Subtotal					\$24,214	\$0	\$0	\$0	\$0	\$24,214
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$24,214
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1210.20 Miscellaneous Environmental Documents			320		\$24,214	\$0	\$0	\$0	\$0	\$24,214
--- ER 1220.04 Quality Assurance										
Quality Assurance Support	U.C. per FTE	1.00	320	E17	23510.453	0	0	0	0	23510.453
			320	\$73.47	\$23,510	\$0	\$0	\$0	\$0	\$23,510
Subtotal										\$23,510
Sales Tax										\$0
INEEL ORG Labor/Subcontractor Overheads										\$0
Subtotal Estimate										\$23,510
Escalation										\$0
Contingency										\$0
---Total ER 1220.04 Quality Assurance			320		\$23,510	\$0	\$0	\$0	\$0	\$23,510
--- ER 1220.05 Project Office Operations										
Coord./Oversight of technical Support	U.C. per FTE	1.00	640	E08	48428.542	0	0	0	0	48428.542
			640	\$75.67	\$48,429	\$0	\$0	\$0	\$0	\$48,429
Coord. with Agency Participants	U.C. per FTE	1.00	320	E08	24214.271	0	0	0	0	24214.271
			320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
Cost and Schedule Control	U.C. per FTE	1.00	320	E08	24214.271	0	0	0	0	24214.271
			320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
Ensure Compliance of Gov't Regulations	U.C. per FTE	1.00	160	E08	12107.136	0	0	0	0	12107.136
			160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
Quarterly and Yearly Reviews	U.C. per FTE	1.00	160	E08	12107.136	0	0	0	0	12107.136
			160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107

13-25

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1220.05 Project Office Operations										
		U.C. per FTE	160	E08	12107.136	0	0	0	0	12107.136
	Audit Preparation and Coordination	1.00	160	\$75.67	\$12,107	\$0	\$0	\$0	\$0	\$12,107
Subtotal					\$133,178	\$0	\$0	\$0	\$0	\$133,178
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$133,178
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER 1220.05 Project Office Operations			1,760		\$133,178	\$0	\$0	\$0	\$0	\$133,178
--- ER1221.04.01 Annual Program Management										
<i>Memo: All Quality Engineering actions and Inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>										
		U.C. per FTE	200	E08	15133.919	0	0	0	0	15133.919
	Coordination/Oversight of Technical Support	1.00	200	\$75.67	\$15,134	\$0	\$0	\$0	\$0	\$15,134
		U.C. per FTE	80	E08	6053.568	0	0	0	0	6053.568
	Coordination with Agency Participants	1.00	80	\$75.67	\$6,054	\$0	\$0	\$0	\$0	\$6,054
		U.C. per FTE	60	F22	4002.324	0	0	0	0	4002.324
	Cost and Schedule Control	1.00	60	\$66.71	\$4,002	\$0	\$0	\$0	\$0	\$4,002
		U.C. per FTE	32	E08	2421.427	0	0	0	0	2421.427
	Ensure Compliance of Gov't Regulation	1.00	32	\$75.67	\$2,421	\$0	\$0	\$0	\$0	\$2,421
		U.C. per FTE	32	E08	2421.427	0	0	0	0	2421.427
	Reviews	1.00	32	\$75.67	\$2,421	\$0	\$0	\$0	\$0	\$2,421
		U.C. per FTE	32	E08	2421.427	0	0	0	0	2421.427
	Audit Preparation and Coordination	1.00	32	\$75.67	\$2,421	\$0	\$0	\$0	\$0	\$2,421
		U.C. per FTE	40	E08	3026.784	0	0	0	0	3026.784
	Annual Operations and Maintenance Reports	1.00	40	\$75.67	\$3,027	\$0	\$0	\$0	\$0	\$3,027
		U.C. per FTE	160	P21	9253.838	0	0	0	0	9253.838
	Subcontract Administrator	1.00	160	\$57.84	\$9,254	\$0	\$0	\$0	\$0	\$9,254
Subtotal					\$44,735	\$0	\$0	\$0	\$0	\$44,735
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$44,735
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total ER1221.04.01 Annual Program Management			636		\$44,735	\$0	\$0	\$0	\$0	\$44,735

13-26

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1230.01 Mobilization and Preparatory Work										
<i>Memo: Apply only when the project is large enough to support dedicated personnel instead of the pool account.</i>										
	GEN	U.C. per LS			0	0	0	10000	0	10000
Mobilization	of Survey & UXO Disposal Equipment	1.00	0		\$0	\$0	\$0	\$10,000	\$0	\$10,000
Subtotal					\$0	\$0	\$0	\$10,000	\$0	\$10,000
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$2,903	\$0	\$2,903
Subtotal Estimate										\$12,903
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1230.01 Mobilization and Preparatory Work			0		\$0	\$0	\$0	\$12,903	\$0	\$12,903
--- ER1230.03 Sitework										
<i>Memo: Apply only when the project is large enough to support dedicated personnel instead of the pool account.</i>										
	GEN	U.C. per signs	0.25	CN-LABR	7.895	0	25	0	0	32.895
Post Signs on Existing Fence		8,000.00	2,000	\$31.58	\$63,160	\$0	\$200,000	\$0	\$0	\$263,160
	GEN	U.C. per acres			0	0	0	18.46	0	18.46
Aerial Survey (252,000 acres)		252,000.00	0		\$0	\$0	\$0	\$4,651,920	\$0	\$4,651,920
		U.C. per FTE	5250	S12	570824.972	0	0	0	0	570824.972
Analytical Support		1.00	5,250	\$108.73	\$570,825	\$0	\$0	\$0	\$0	\$570,825
		U.C. per EA			0	0	0	2000	0	2000
Assume (1,000 ea UXOs) are Removed		1,000.00	0		\$0	\$0	\$0	\$2,000,000	\$0	\$2,000,000
	GEN	U.C. per LS			0	0	0	77470	0	77470
Aerial Survey Certification Test		1.00	0		\$0	\$0	\$0	\$77,470	\$0	\$77,470
Subtotal					\$633,985	\$0	\$200,000	\$6,729,390	\$0	\$7,563,375
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$18,335	\$0	\$58,060	\$1,372,942	\$0	\$1,449,337
Subtotal Estimate										\$9,012,712
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER1230.03 Sitework			7,250		\$652,320	\$0	\$258,060	\$8,102,332	\$0	\$9,012,712
--- ER1230.05 Demobilization										
<i>Memo: Apply only when the project is large enough to support dedicated personnel instead of the pool account.</i>										
	GEN	U.C. per LS			0	0	0	10000	0	10000
Demobilization	of Survey & UXO Disposal Equipment	1.00	0		\$0	\$0	\$0	\$10,000	\$0	\$10,000

13-27

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER1230.05 Demobilization										
<i>Memo: Apply only when the project is large enough to support dedicated personnel instead of the pool account.</i>										
Subtotal					\$0	\$0	\$0	\$10,000	\$0	\$10,000
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$2,903	\$0	\$2,903
Subtotal Estimate										\$12,903
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER1230.05 Demobilization			0		\$0	\$0	\$0	\$12,903	\$0	\$12,903
--- ER1230.07.01 Remedial Action Documentation										
Shipping/Transportation Documentation		U.C. per FTE	160	F23	9106.417	0	0	0	0	9106.417
		1.00	160	\$56.92	\$9,106	\$0	\$0	\$0	\$0	\$9,106
Review & Comments Resolution		U.C. per FTE	40	F23	2276.604	0	0	0	0	2276.604
		4.00	160	\$56.92	\$9,106	\$0	\$0	\$0	\$0	\$9,106
Subtotal					\$18,213	\$0	\$0	\$0	\$0	\$18,213
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$18,213
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER1230.07.01 Remedial Action Documentation			320		\$18,213	\$0	\$0	\$0	\$0	\$18,213
--- ER1221.21 Project Management 100 year Duration										
<i>Memo: All Quality Engineering actions and Inspections-related actions that are required to plan and perform surveillance-related activities during the execution and start-up phases of a project.</i>										
Project Management for 100 year Duration		U.C. per YRS	240	E08	18160.703	0	0	0	0	18160.703
		100.00	24,000	\$75.67	\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Subtotal					\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$1,816,070
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER1221.21 Project Management 100 year Duration			24,000		\$1,816,070	\$0	\$0	\$0	\$0	\$1,816,070
--- ER 1270.07 Summary Report										
Remedial Action Report Preparation		U.C. per FTE	320	E08	24214.271	0	0	0	0	24214.271
		1.00	320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214

13-28

Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- ER 1270.07 Summary Report										
		U.C. per FTE	320	E08	24214.271	0	0	0	0	24214.271
Reviews and Comment Resolution		1.00	320	\$75.67	\$24,214	\$0	\$0	\$0	\$0	\$24,214
Subtotal					\$48,429	\$0	\$0	\$0	\$0	\$48,429
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$48,429
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1270.07 Summary Report			640		\$48,429	\$0	\$0	\$0	\$0	\$48,429
--- ER 1300.01 Caretaker Maintenance										
		U.C. per Yrs	480	U21	18519.396	0	0	0	0	18519.396
Caretaker Maintenance on Fence (40 hrs/mo x 100 years)		100.00	48,000	\$38.58	\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
Subtotal					\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$1,851,940
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1300.01 Caretaker Maintenance			48,000		\$1,851,940	\$0	\$0	\$0	\$0	\$1,851,940
--- ER 1310.05 5-Year Reviews										
		U.C. per FTEs	160	E08	12107.136	0	0	0	0	12107.136
1 FTE for first 5 years		5.00	800	\$75.67	\$60,536	\$0	\$0	\$0	\$0	\$60,536
		U.C. per FTEs	160	E08	12107.136	0	0	0	0	12107.136
1 FTE in 5 year increments from year 6 through 100		18.00	2,880	\$75.67	\$217,928	\$0	\$0	\$0	\$0	\$217,928
Subtotal					\$278,464	\$0	\$0	\$0	\$0	\$278,464
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$278,464
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
--- Total ER 1310.05 5-Year Reviews			3,680		\$278,464	\$0	\$0	\$0	\$0	\$278,464
--- GAPIF Non-Org G&A and PIF										
<i>Memo: This is a model that works with the macro named "INEELRollup_Rev0.BAS".</i>										
PF	NOGAPIF	U.C. per \$			0	0	0	0	1	1
Procurement Fee %		152,868.00	0		\$0	\$0	\$0	\$0	\$152,868	\$152,868

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Project Name:
WAG 10 OU 10-04 FEASIBILITY STUDY-UXO (OPTION 3)
 Project Location: **UXO Sites**
 Estimate Number: **8952 -2(3)**

CONSTRUCTION DETAIL ITEM REPORT

Client: **Barbara Broomfield**
 Prepared By: **KLS, SNW, SLC**
 Estimate Type: **Planning**

<u>LEVEL</u>	<u>Org/Subcontractor</u>	<u>QTY</u>	<u>Hrs</u>	<u>Crew/Rate</u>	<u>Labor</u>	<u>Const Eqp</u>	<u>Matl</u>	<u>S/C</u>	<u>Other</u>	<u>TOTAL</u>
--- GAPIF Non-Org G&A and PIF										
<i>Memo: This is a model that works with the macro named "INEELRollup_Rev0.BAS".</i>										
G&A	NOGAPIF			U.C. per \$	0	0	0	0	1	1
G&A Fee %		58,090.00	0		\$0	\$0	\$0	\$0	\$58,090	\$58,090
Subtotal					\$0	\$0	\$0	\$0	\$210,958	\$210,958
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Estimate										\$210,958
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
---Total GAPIF Non-Org G&A and PIF			0		\$0	\$0	\$0	\$0	\$210,958	\$210,958
<hr/>										
Subtotal WAG 10 OU10-4 UX0 SITES OPT. 3					\$5,719,942	\$0	\$225,000	\$6,749,390	\$210,958	\$12,905,290
Sales Tax					\$0	\$0	\$0	\$0	\$0	\$0
INEEL ORG Labor/Subcontractor Overheads					\$18,335	\$0	\$58,060	\$1,378,748	\$0	\$1,455,143
Subtotal Estimate										\$14,360,433
Escalation					\$0	\$0	\$0	\$0	\$0	\$0
Contingency					\$0	\$0	\$0	\$0	\$0	\$0
Total WAG 10 OU10-4 UX0 SITES OPT. 3			97,703		\$5,738,277	\$0	\$283,060	\$8,128,138	\$210,958	\$14,360,433

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